

CARRYING APPARATUS

Field of Invention

The present invention relates to a basket includes a carrying apparatus.

Background of Invention

Referring to Figures 6 and 7, a conventional carrying apparatus 60 includes a basket 62 made of metal and a frame 64 made of metal. The basket 62 is made of a metal net that is punched. The frame 64 is made of a metal strip that is punched. The frame 64 is secured to the basket 62 for rigidity of the basket 62 and safety of users. The basket 62 includes a wall 66, an edge 68 and a bent connection 70 extending from the wall 66 to the edge 68. The frame 64 includes a vertical portion 72, a first horizontal portion 74, a bent connection 76 extending from the vertical portion 72 to the first horizontal portion 74, a second horizontal portion 78, a retroflex connection 80 extending from the first horizontal portion 74 to the second horizontal portion 78, a bent edge 82 extending from the second horizontal portion 78. The edge 68 is put in a space defined between the first horizontal portion 74 and the second horizontal portion 78. The bent connection 74 is covered via the bent edge 82. The frame 64 is punched against the basket 62. Soldering is conducted between the vertical portion 72 and the wall 66. Thus, the frame 64 is secured to the basket 62. However, solder provided between the vertical portion 72 and the wall 66 is of course not esthetic. Moreover, while using the carrying apparatus, a user can easily have his or her fingers cut by the bent edge 82.

1 The present invention is therefore intended to obviate or at least alleviate
2 the problems encountered in prior art.

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4 **Summary of Invention**

5 It is the primary objective of the present invention to provide a safe
6 carrying apparatus that cannot cut users' fingers.

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8 According to the present invention, a carrying apparatus includes a metal
9 basket and a metal frame. The metal basket includes a bottom and a
10 wall attached to the bottom. The wall includes an upper edge and a bent
11 connection extending from the wall to the upper edge. The metal frame
12 includes a vertical portion, a first horizontal portion, a bent connection
13 extending from the vertical portion to the first horizontal portion, a
14 second horizontal portion, a retroflex connection extending from the first
15 horizontal portion to the second horizontal portion, a rolled edge
16 extending from the second horizontal portion. The bent connection of
17 the basket is clamped between the bent connection and the rolled edge of
18 the frame. Therefore, the frame is secured to the basket.

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20 Other objects, advantages and novel features of the invention will become
21 more apparent from the following detailed description in conjunction
22 with the attached drawings.

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24 **Brief Description of Drawings**

25 The present invention will be described via detailed illustration of the
26 preferred embodiment referring to the drawings.

1 Figure 1 is a perspective view of a carrying apparatus according to the
2 preferred embodiment of the present invention.

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4 Figure 2 is an exploded view of the carrying apparatus shown in Figure 1.

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6 Figure 3 is a cross-sectional view of the carrying apparatus taken along a
7 line 3-3 in Figure 1.

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9 Figure 4 is an enlarged, partial, cross-sectional view of the carrying
10 apparatus shown in Figure 2.

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12 Figure 5 is similar to Figure 4 but shows a frame detached from a basket.

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14 Figure 6 is an exploded view of a conventional carrying apparatus.

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16 Figure 7 is an enlarged, partial, cross-sectional view of the conventional
17 carrying apparatus shown in Figure 6.

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19 **Detailed Description of Preferred Embodiment**

20 Referring to Figures 1 and 2, according to the preferred embodiment of
21 the present invention, a carrying apparatus includes a basket 10 made of
22 metal and a frame 20 made of metal. The basket 10 is made of a metal
23 net that is punched. The frame 20 is made of a metal strip that is
24 punched. The frame 20 is secured to the basket 10 for rigidity of the
25 basket 10 and safety of users.

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1 Referring to Figures 1-4, the basket 10 includes a bottom 11 and a wall 12.
2 The bottom 11 includes an edge 15 extending downwards and inwards.
3 The wall 12 includes a lower edge 16 extending inwards, upwards and
4 outwards. The edge 15 of the bottom 11 is hooked to the lower edge 16
5 of the wall 12 so as to form the basket 10. The wall 12 includes an
6 upper edge 13 extending outwards so as to form a bent connection 14.

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8 The frame 20 includes a vertical portion 21, a first horizontal portion 22,
9 a bent connection 23 extending from the vertical portion 21 to the first
10 horizontal portion 22, a second horizontal portion 24, a retroflex
11 connection 25 extending from the first horizontal portion 22 to the second
12 horizontal portion 24, a rolled edge 26 extending from the second
13 horizontal portion 24.

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15 Referring to Figure 5, the upper edge 13 is put between the first
16 horizontal portion 22 and the second horizontal portion 24. The bent
17 connection 14 is put between the bent connection 23 and the rolled edge
18 26. The wall 12 is put against the vertical portion 21. The frame 20 is
19 punched against the basket 10 so that the bent connection 14 is clamped
20 between the bent connection 23 and the rolled edge 26. Therefore, the
21 frame 20 is secured to the basket 10.

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23 Because of elasticity of the rolled edge 26, the bent connection 14 is
24 firmly clamped between the bent connection 23 and the rolled edge 26.
25 Therefore, the frame 20 is secured to the basket 10, saving the soldering
26 required in making the conventional carrying apparatus addressed in

1 **Background of Invention.** Moreover, the rolled edge 26 obviously
2 cannot cut users' fingers.

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4 The present invention has been described via detailed illustration of the
5 preferred embodiment. Those skilled in the art can derive variations
6 from the preferred embodiment without departing from the scope of the
7 present invention. Therefore, the preferred embodiment shall not limit
8 the scope of the present invention defined in the claims.

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